

Special Issue

Biologically Enhanced Treatments of Hazardous Pollutants in Soil and Water: Biodegradation, Transformation, and Remediation

Message from the Guest Editors

This Special Issue aims to feature full-length articles, reviews, and communications addressing the current research progress on bioremediation processes, co-metabolic mechanisms, plant-microbe interactions and novel technologies developed for enhanced bioremediation, highly efficient degrading microorganism screening, and the construction of genetically engineered bacteria in contaminated soil remediation and polluted water treatment. Topics may include, but are not limited to, the following:

- New developments in biologically enhanced treatments;
- Characterization of the interactions of bioaugmentation agents with pollutants and plants or other microorganisms used in the bioremediation process;
- Identification of co-metabolic mechanisms, biodegradation pathways, and transformation of pollutants in soil remediation and water treatment processes;
- Assessment of the risks and benefits of biologically enhanced treatments to human and environmental health.

We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Rui Liu

Prof. Dr. Yuebing Sun

Prof. Dr. Zhiguo Yu

Deadline for manuscript submissions

closed (28 December 2023)



Toxics

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/143437

Toxics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
toxics@mdpi.com

[mdpi.com/journal/
toxics](https://mdpi.com/journal/toxics)





Toxics

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed



[mdpi.com/journal/
toxics](https://mdpi.com/journal/toxics)



About the Journal

Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

Editor-in-Chief

Dr. Demetrio Raldúa
Department Environmental Chemistry, IDAEA-CSIC, Jordi Girona 18,
08034 Barcelona, Spain

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Toxicology) / CiteScore - Q1 (Chemical Health and Safety)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.1 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).